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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/663,771	09/17/2003	Stephen Kaminski	Q77159 2952		
23373 SUGHRUE MI	7590 06/25/200 ON. PLLC	7	EXAMINER		
2100 PENNSYLVANIA AVENUE, N.W.			RUSSELL, WANDA Z		
	SUITE 800 WASHINGTON, DC 20037			PAPER NUMBER	
			2616		
					
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application	ı No.	Applicant(s)			
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Office Action Summary	10/663,771		KAMINSKI ET AL.			
Office Action Summary	Examiner		Art Unit			
The MAN MO DATE of this assessmination and	Wanda Z. R		2616			
The MAILING DATE of this communication app Period for Reply	ears on the d	cover sneet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS 36(a). In no even will apply and will a cause the applic	S COMMUNICATION it, however, may a reply be time expire SIX (6) MONTHS from attorn to become ABANDONE!	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1) Responsive to communication(s) filed on	<u>_</u> ,					
2a) This action is FINAL . 2b) ⊠ This	This action is FINAL . 2b)⊠ This action is non-final.					
,—) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-10 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 1-10 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	wn from con:					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on 17 September 2003 is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	are: a)⊠ ac drawing(s) be tion is require	e held in abeyance. See d if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119	•					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	•	4) Interview Summary Paper No(s)/Mail Do 5) Notice of Informal F 6) Other:	ate			

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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claim 2 recites the limitation "first connection" in claim 1. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4. Claims 1-3, and 10 are rejected under 35 U.S.C. 102(e) as being anticipated by Bichot et al. (Pub No. US 2004/0001468).

For claim 1, Bichot et al. teach an interface unit (IWU, 18-Fig. 1) comprising:

a first component for establishing a connection (20-Fig. 1) to a radio network controller (RNC, 22-Fig. 1) of a radio network sub-system (12-Fig. 1) by means of a first communication protocol (21-Fig. 1, and [0015], line 6 to end),

a second component for establishing a connection (3 paths between MT to AP – Fig. 1) to at least one access point (AP, 16-Fig. 1) of a wireless local area network (WLAN, 10-Fig. 1) by means of a second communication protocol ([0014], line 14),

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a third component for converting the second communication protocol to the first communication protocol and for converting the first communication protocol to the second communication protocol ([0017], lines 6-8, and 1-end),

a fourth component for providing data indicative of a load situation of at least one access point to the radio network controller (signaling path –Fig. 1).

For **claim 2**, Bichot et al. teach the interface unit of claim 1, the first connection being a long distance connection, such as an ATM-type or IP-type connection (MT-AP-Internet –Fig. 1, and [0022], line 7).

For **claim 3**, Bichot et al. teach the interface unit of claim 1, the second connection being a short distance connection, such as an Ethernet-type connection (IEEE 802.11, [0014], line 15).

5. **Claim 10** is a method claim corresponding to claim 1. Therefore it is rejected for the same reason above.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bichot et al. (Pub No. US 2004/0001468) as applied to claim 1, above, further in view of Chuah (Pub No. US 2003/0076803).

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Bichot et al. lack what Chuah teaches: the interface unit of claim 1 further comprising a fifth component for balancing (Abstract, last line) the load of a number of the access points being comprised within a logical cell of the wireless local area network ([0030], lines 1-3).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine [Bichot et al.] with [Chuah] to obtain the invention as specified for improving the system performance.

8. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bichot et al. (Pub No. US 2004/0001468) as applied to claim 1 above, further in view of Soderbacka et al. (Pub No. US 2003/0114158).

Bichot et al. lack what Soderbacka et al. teach: The interface unit of claim 1 further comprising a sixth component for hand over control ([0029], line 2) of wireless terminals (5-Fig. 1) between the access points (1, 2 –Fig. 1) being comprised within a logical cell of the wireless local area network ([0027]).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine [Bichot et al.] with [Soderbacka et al.] to obtain the invention as specified for reliability of different types of access points.

9. Claims 6, and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chuah (Pub No. US 2003/0076803), further in view of Bichot et al. (Pub No. US 2004/0001468).

For claim 6, Chuah teaches a telecommunication system (Fig. 3) comprising:

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a radio network controller (RNC 1-Fig. 3) for coupling to a core network (86-Fig. 3) and for coupling to one or more Node Bs (82a, 82b, 82c-Fig. 3),

a wireless local area network having a number of access points (AP1-3 –Fig. 6), an interface unit ([0009], lines 20-21) for coupling the access points to the radio network controller, the interface unit having a component for providing data indicative of a load situation of the access points to the radio network controller. Chuah lacks what Bichot et al. teach: the interface unit having a component for providing data indicative of a load situation of the access points to the radio network controller (signaling path –Fig. 1).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine [Chuah] with [Bichot et al.] to obtain the invention as specified for the advantage of a loose coupling without the risk of sending sensitive control information over a non-secure link.

For **claim 7**, Chuah and Bichot et al. teach everything claimed as applied above (see claim 6). In addition, Chuah teaches the telecommunication system of claim 6 further comprising a component for balancing (Abstract, last line) the load of the access points being comprised within a logical cell of the wireless local area network, the component for load balancing being comprised in the interface unit ([0009], lines 20-21, and [0030], lines 1-3).

10. Claims 8, and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chuah (Pub No. US 2003/0076803), further in view of Bichot et al. (Pub No. US

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2004/0001468), as applied to claim 6 above, and Soderbacka et al. (Pub No. US 2003/0114158).

For **claim 8**, Chuah and Bichot et al. lack what Soderbacka et al. teach: the telecommunication system of claim 6 further comprising a component for hand over control ([0029], line 2) of wireless terminals (5-Fig. 1) between access points (1, 2 –Fig. 1) being comprised within a logical cell of the wireless local area network ([0027]).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine [Chuah] with [Bichot et al.] and [Soderbacka et al.] to obtain the invention as specified for reliability of different types of access points.

For **claim 9**, Chuah, Bichot et al. and Soderbacka et al. teach everything claimed as applied above (see claim 6, and 8). In addition, Soderbacka et al. teach the telecommunication system of claim 8, the component for hand over control being comprised in the radio network controller ([0007], lines 8-10).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Wanda Z. Russell whose telephone number is (571) 270-1796. The examiner can normally be reached on Monday-Thursday 9:00-6:00 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Seema Rao can be reached on (571) 272-3174. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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